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31 March 1971

MEMORANDUM TO: Chief, Administrative Staff, OCS

SUBJECT : Rental of One Million Byte Memory from

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1. Request that a rental contract be placed with [REDACTED] for one ECM RM-65 at 1.8 u.s. cycle time with unlimited useage and reimbursement for the IBM 8080 Adapters. All installation cables are to be included.
2. Lease contract is to be for twelve months at \$6,320.00 per month plus \$375.00 per month for service charge. Lease is to begin 15 May 1971.
3. See three attachments in memorandum "Selection of Vendor for LCS" by [REDACTED] dated 30 March 1971, proposal by [REDACTED] to CIA, and paper which gives justification for item costing more than \$4,000.00 per month.

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[REDACTED]
Chief
Operations Division

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[REDACTED]
Chief
Operations Division

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JUSTIFICATION FOR TWO LARGE CORE MEMORIES FOR IBM 360/65 FROM

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1. Approval is requested to lease from [REDACTED] one million bytes of memory at a cost of \$6,695 per month with installation on 15 May 1971. This is to be installed on the IBM 360/65-2 computer. If this installation proves beneficial from an increased production and a cost savings view, OCS will then install the second one million bytes of [REDACTED] memory on the IBM 360/65-1, also at \$6,695 per month.

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2. OCS has the requirement to keep several large programs resident in computer memory for long periods of time. Typically, these programs support terminals and use small amounts of computer power. Support for Project [REDACTED] with 400,000 bytes of memory is an immediate (June 71) requirement. OCS has the option of acquiring another computer for these memory requirements or of attaching memory to an existing computer. The IBM 360/65-2 has unused power because it does not have enough memory to contain enough programs to utilize all the power. IBM offers

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3. Benefits - For a relatively low additional monthly cost, OCS can process one million bytes of programs on an existing machine. The memory size of a \$100,000 per month computer is doubled for \$6,695 per month. If these programs were put on the computers in the high speed memories, the computers would be nearly useless for the daily work load. The only alternative would be a \$30-40,000 per month expense for another computer.

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4. Savings - There are no obvious direct savings to OCS. The CRS computers will be relieved of this requirement. OCS does believe that the memory will be a great benefit in other processing, but judgement must await testing. STATINTL

5. Selection - All manufacturers of IBM 360 compatible memories were considered. Products from [REDACTED] Products, and [REDACTED] were analyzed in detail. [REDACTED] was eliminated because of slow speed. [REDACTED] was eliminated because of speed, price, and its bulk and extra cooling requirements. [REDACTED] products are very close; however, [REDACTED] was selected over [REDACTED] because: STATINTL

a) [REDACTED] has a spare 128 K module which is a significant factor in a low MTTR (Mean Time to Repair). STATINTL

b) [REDACTED] has many units installed under conditions similar to the intended use in OCS. STATINTL

6. Coordination - The task team selected to investigate the feasibility to make the selection was chaired by [REDACTED] DC/APS and included technicians from the Technical and Hardware sections of OPS. The installation has been discussed with IBM. IBM never appreciates installation of a component other than its own, but IBM will cooperate.

7. Funding - Funds are to be taken from budgeted rental monies.

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